

ELECTRICAL SYMBOLS

LIGHTING

- 120/277V, 20A 3-WAY LIGHT SWITCH, SPECIFICATION GRADE
"F" INDICATES FAN SWITCH
- FLUORESCENT LIGHT FIXTURES
- EMERGENCY LIGHT, BATTERY POWERED TWO LAMPS
- EMERGENCY LIGHT, REMOTE HEAD ONE LAMP
- ILLUMINATED EXIT SIGN, LED TYPE SINGLE FACE OR DOUBLE FACE, ARROW INDICATES DIRECTION OF FLOW FOR THE FACE

LINE TYPE LEGEND

- REMOVE EXISTING ITEMS
- EXIST ITEMS TO REMAIN
- PROVIDE ITEMS

RECEPTACLES

- DUPLEX RECEPTACLE, 120V, 20A, SPECIFICATION GRADE, NEMA 5-20 R
- DUPLEX RECEPTACLE, 120V, 20A SPECIFICATION GRADE, NEMA 5-20 R SUBSCRIPT "G" INDICATES GROUND FAULT INTERRUPT, WP INDICATES WEATHERPROOF GROUND FAULT INTERRUPT.

FIRE ALARM

- SMOKE DETECTOR
- ADDRESSABLE DUCT SMOKE DETECTOR, NOTIFIER BY HONEYWELL

GENERAL

- MOTOR
- NON-FUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH WP INDICATES WEATHERPROOF.
- COMBINATION MAGNETIC STARTER
- JUNCTION BOX
- BRANCH CIRCUIT HOMERUN, A-1 INDICATES PANEL DESIGNATION AND CIRCUIT NUMBER
- EXISTING PANELBOARD

ELECTRICAL ABBREVIATIONS

- A, AMP AMPERE
- A3P AMPERES, 3-POLE
- AC ALTERNATING CURRENT, AIR CONDITIONING
- AFF ABOVE FINISHED FLOOR
- AIC AMPERE INTERRUPTING CAPACITY
- AVG AVERAGE
- AWG AMERICAN WIRE GAUGE
- BKR BREAKER
- C CONDUCTOR, CONDUIT
- CAT CATALOG, CATEGORY
- CB CIRCUIT BREAKER
- CKT CIRCUIT
- CU COPPER
- DWG DRAWING
- EMT ELECTRICAL METALLIC TUBING
- FACP FIRE ALARM CONTROL PANEL
- G GROUND; GROUND FAULT CIRCUIT INTERRUPTER
- GFCI GROUND FAULT CIRCUIT INTERRUPTER
- HP HORSEPOWER
- HVAC HEATING, VENTILATION, AND AIR CONDITIONING
- KCMIL KILO-CIRCULAR MILS
- KVA KILO-VOLT-AMPERE
- KW KILO-WATT
- LED LIGHT EMITTING DIODE
- LTG LIGHTING
- M MOTOR LOAD TYPE FOR PANEL SCHEDULE
- MAX MAXIMUM
- MCB MAIN CIRCUIT BREAKER
- MIN MINIMUM
- MLO MAIN LUG ONLY
- N NEUTRAL
- NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
- NFPA NATIONAL FIRE PROTECTION ASSOCIATION
- NIC NOT IN CONTRACT
- NO, # NUMBER
- OCC OCCUPANCY
- Ø PHASE
- P POLE
- P/O PART OF
- R RECEPTACLE LOAD TYPE FOR PANEL SCHEDULE
- REC RECEPTACLE
- RGS RIGID GALVANIZED STEEL
- RM ROOM
- RMC RIGID METAL CONDUIT
- SPDT SINGLE POLE, DOUBLE THROW
- SQ SQUARE
- SW SWITCH
- THHN HEAT RESISTANT THERMOPLASTIC WIRE WITH NYLON JACKET
- THWN MOISTURE & HEAT RESISTANT THERMOPLASTIC WIRE WITH NYLON JACKET
- TMGB TELECOM MAIN GROUND BUSBAR
- TYP TYPICAL
- UE UNDERGROUND ELECTRIC
- UL UNDERWRITERS LABORATORIES
- V VOLT
- VA VOLT AMPERE
- VFC VARIABLE FREQUENCY CONTROLLER
- W WATT, WIRE
- W/ WITH
- WP WEATHERPROOF

ELECTRICAL GENERAL NOTES

1. ELECTRICAL INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE CURRENTLY ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), NFPA, AND STATE AND LOCAL CODES.
2. WORK SHALL BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, AND MECHANICAL TRADES.
3. ELECTRICAL EQUIPMENT AND WIRING SHALL BE NEW AND UL LISTED UNLESS OTHERWISE NOTED.
4. LIGHT FIXTURES AND OTHER CEILING MOUNTED ELECTRICAL EQUIPMENT SHALL BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, AND MECHANICAL WORK TO AVOID INTERFERENCE.
5. A SEPARATE GREEN GROUNDING CONDUCTOR SHALL BE PROVIDED FOR EACH INDIVIDUAL CIRCUIT. METAL CONDUIT SHALL BE GROUNDED BUT SHALL NOT BE USED AS THE EQUIPMENT GROUNDING CONDUCTOR.
6. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND DIMENSIONS AND REPORT DISCREPANCIES TO THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL PROCEED WITH THE WORK ONLY AFTER THE DISCREPANCIES HAVE BEEN RESOLVED BY THE OWNER'S REPRESENTATIVE.
7. CONDUCTORS SHALL BE MINIMUM #12 AWG UNLESS NOTED OTHERWISE.
8. CONDUIT SHALL BE MINIMUM 3/4" UNLESS OTHERWISE NOTED.
9. A SEPARATE NEUTRAL CONDUCTOR SHALL BE PROVIDED FOR EACH INDIVIDUAL 120V CIRCUIT.

GE REVISED PANELBOARD SCHEDULE P3B (EXISTING PANELBOARD)

CKT NO	AMPS PER PHASE			DESCRIPTION	LOAD TYPE	CKT BKR		LOAD TYPE	DESCRIPTION	AMPS PER PHASE			CKT NO
	A	B	C			TRIP	POLE			A	B	C	
1				OU-3		30	2		ITV 304				2
3													4
5				TEMP CONTROL PANEL		15	1		REC - DATA RM				6
7				REC - RM 302	R	20	1		ROOFTOP UNIT #1				8
9				REC - RM 302	R	20	1						10
11				ROOF REC #1 HVAC	R	20	1		ROOFTOP UNIT 304				12
13				REC - RM 302	R	20	1						14
15				REC - RM 301A	R	20	1		ROOFTOP UNIT BLOWER 304				16
17				REC - RM 302 OC	R	20	1		305 HOOD				18
19				LADYS ROOM DOOR OPENER		20	1		HVAC4 GFI REC				20
21				HVAC ROOF TOP UNIT #2		25	3		HVAC ROOFTOP #3				22
23													24
25													26
27				CONTROLLER HV3, HV4		20	1		SPARE				28
29				OU-1		50	2						30
31													32
33				IU-1,2,3,4		50	2		CU-1 LEFT				34
35													36
37				ROOF REC/EXHAUST FANS		20	1		CU-2 RIGHT				38
39				IU-1,2,3,4		20	2		OU-2				40
41													42
TOTAL/PHASE				VOLTS: 120/208, 3 PHASE, 4 WIRE				DESIGNATION: P3B					
				MCB: <input type="checkbox"/>				MCB AMPS: .				LOCATION: STAIR 330	
				MLO: <input checked="" type="checkbox"/>				BUS AMPS: 225				MOUNTING: SURFACE	
				FAULT AMPS: 10,000									

GE REVISED PANELBOARD SCHEDULE P2B (EXISTING PANELBOARD)

CKT NO	AMPS PER PHASE			DESCRIPTION	LOAD TYPE	CKT BKR		LOAD TYPE	DESCRIPTION	AMPS PER PHASE			CKT NO
	A	B	C			TRIP	POLE			A	B	C	
1				UNKNOWN		20	1		RM 203				2
3				UNKNOWN		20	1		UNKNOWN				4
5				UNKNOWN		20	1		UNKNOWN				6
7				UNKNOWN		20	1		UNKNOWN				8
9				UNKNOWN		20	1		UNKNOWN				10
11				UNKNOWN		20	1		UNKNOWN				12
13				RM 203		20	1		UNKNOWN				14
15													16
17													18
19	41.9			RTU-1 (ON ROOF)		50	3						20
21		41.9											22
23			41.9										24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
TOTAL/PHASE				VOLTS: 120/208, 3 PHASE, 4 WIRE				DESIGNATION: P2B					
				MCB: <input type="checkbox"/>				MCB AMPS: .				LOCATION: STAIR	
				MLO: <input type="checkbox"/>				BUS AMPS: 225				MOUNTING: SURFACE	
				FAULT AMPS: 10,000									

DRAWING KEYNOTE

- PROVIDE INDICATED BREAKER, GE, HACR TYPE THQB.



DESIGNED BY: KAO
DRAWN BY: RSW
CHECKED BY: KAO
PROJECT: 21702.01

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ELECTRICAL SYMBOLS, ABBREVIATIONS, GENERAL NOTES, AND PANELBOARD SCHEDULES

SCALE: AS NOTED
DATE: 01-09-18

DWG.: E-001

SHEET: 15 OF 17